

## PROJECT DESCRIPTION

## I. GENERAL

This project involves the reconstruction of the traffic signal at the intersection of US 50 (Ocean Gateway) and Walston Switch Road in Parsonsburg, Maryland. US 50 (Ocean Gateway) is assumed to run in an east-west direction.

Intersection lighting will be provided on signal poles.

## II. INTERSECTION OPERATION

- A proposed NEMA full-traffic actuated signal controller with an Uninterruptible Power Supply housed in a Type "S" base mounted cabinet will be installed. The intersection is to operate using six NEMA phases. The US 50 approaches will operate concurrently with exclusive left turn phasing for the offset left turn lanes. Walston Switch Road will operate with split phasing.

Signal pre-emption phases will be provided for each direction of travel. US 50 approaches will hold the through and left turn phases associated with the approach under pre-emption. Walston Switch Road approaches will hold the split phase associated with the approach under pre-emption.

## NOTES

- For final pavement markings, refer to the pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- All proposed luminaires shall be supplied with a photocell.
- Upon completion of this project, the contractor shall notify Mr. Robert Snyder to arrange for the phone line installation. The contractor shall provide Mr. Snyder with the nearest street address, zip code and telephone number.

## CONTACTS

<b>DISTRICT</b> MR. DONNIE L. DREW DISTRICT ENGINEER 410-677-4006	<b>OFFICE OF TRAFFIC AND SAFETY</b> MS. CORREN JOHNSON CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. KENNETH CIMINO ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-677-4040	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. BRUCE W. POOLE ASSISTANT DISTRICT ENGINEER - UTILITIES 410-677-4082	MR. ED RODENHIZER CHIEF SIGNAL OPERATIONS 410-787-7650
MR. GREG HOLSEY ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-677-4020	MR. EUGENE BAILEY CHIEF SIGN OPERATIONS 410-787-7670
MR. WAYNE WEICHMAN ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-677-4010	MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

## EQUIPMENT LIST

## A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION

CAT CODE	DESCRIPTION	UNITS	QUANTITY
900000	CONTROLLER CABINET, SIZE "S" WITH CONTROLLER & VIDEO DETECTION INTERFACE FOR 1-8 CAMERAS	EA	1
900000	UPS EQUIPMENT FOR "S" CABINET	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF: D-3(1) (96"x16") R3-2 (30"x30") R3-5(L) (30"x36") R3-5(L) MOD (30"x36") R3-6(L) (30"x36") M1-5(4) (78"x36")	SF EA EA EA EA EA	148 2 2 5 1 4

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

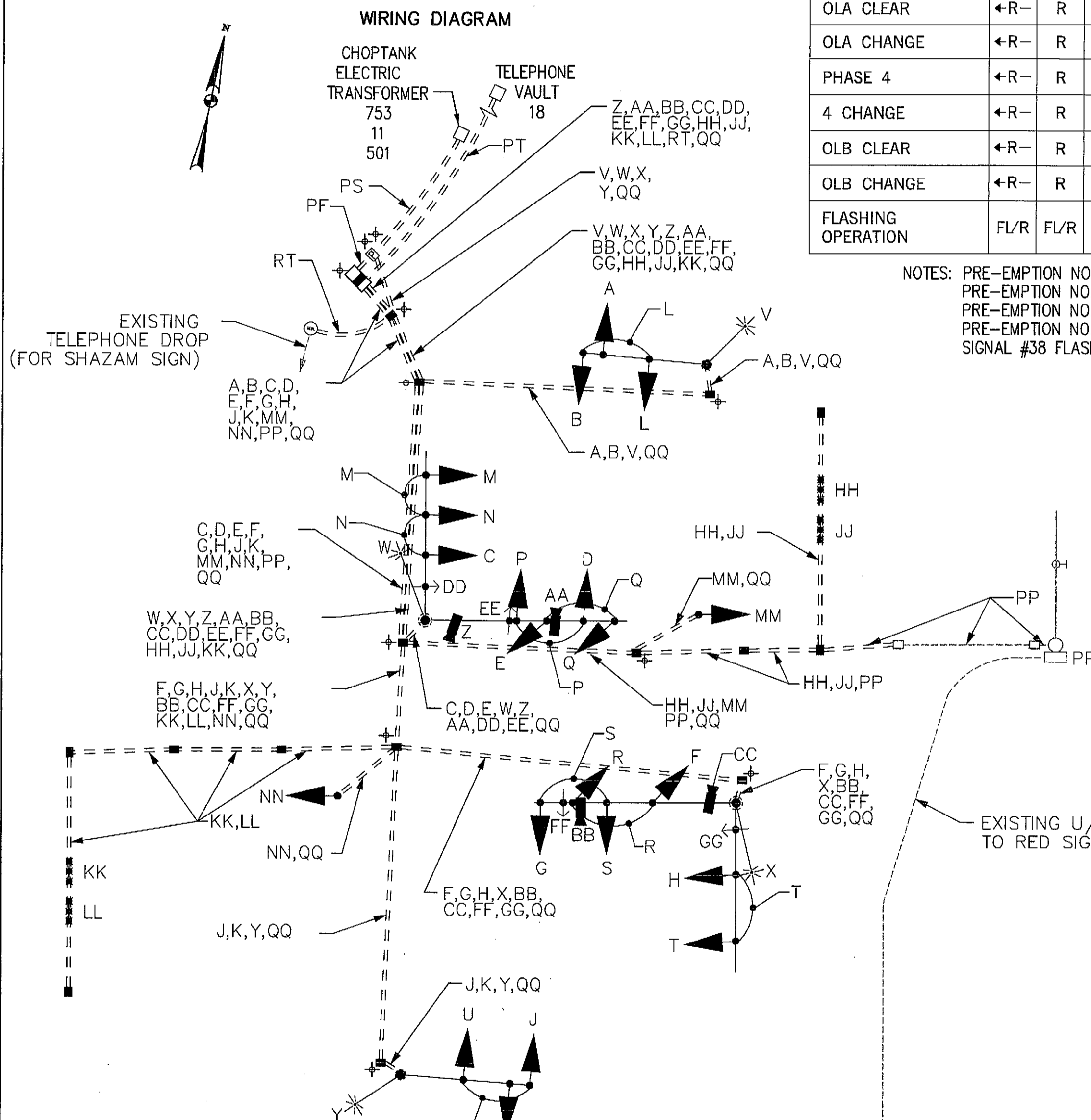
CAT CODE	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	4
585625	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	210
800000	DISCONNECT, PULLBACK & REROUTE CABLES	LF	1025
800000	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT	LS	1
800000	FURNISH AND INSTALL SHA COBRA HEAD LED LUMINAIRE	EA	4
800000	IP-BASED VIDEO TRAFFIC DETECTION CAMERAS	EA	4
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	17
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	1000
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	160
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	715
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	270
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	835
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	660
807500	EMBEDDED METEDED SERVICE PEDESTAL	EA	1
810022	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THIN/THWN	LF	35
810605	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	4
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	15
813015	INSTALL OVERHEAD SIGN	SF	148

## EQUIPMENT LIST CONTINUED

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	DESCRIPTION	UNITS	QUANTITY
816201	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764	EA	1
816215	OPTICOM NO. 721 DETECTOR EYE	EA	4
818010	14 FOOT BREAKAWAY PEDESTAL POLE	EA	2
818030	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM	EA	2
818050	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS	EA	2
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	11
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	65
860288	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE	LF	1350
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	210
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	4000
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	1300
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	2
866104	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	2
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



## KEY

A,B,C, D,E,F, G,H,J, K,MM, NN	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	Z,AA, BB,CC	VIDEO DETECTION CABLE
L,M, N,P, Q,R, S,T, U	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	DD,EE, FF,GG	OPTICOM CABLE
V,W, X,Y	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE	HH,JJ, KK,LL	NON-INVASIVE DETECTOR LEAD-IN CABLE
		PP	EXISTING COMMUNICATION CABLE (RE-ROUTED)
		QQ	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
		RT	EXISTING TELEPHONE DROP (FOR SHAZAM SIGN) TO BE REROUTED

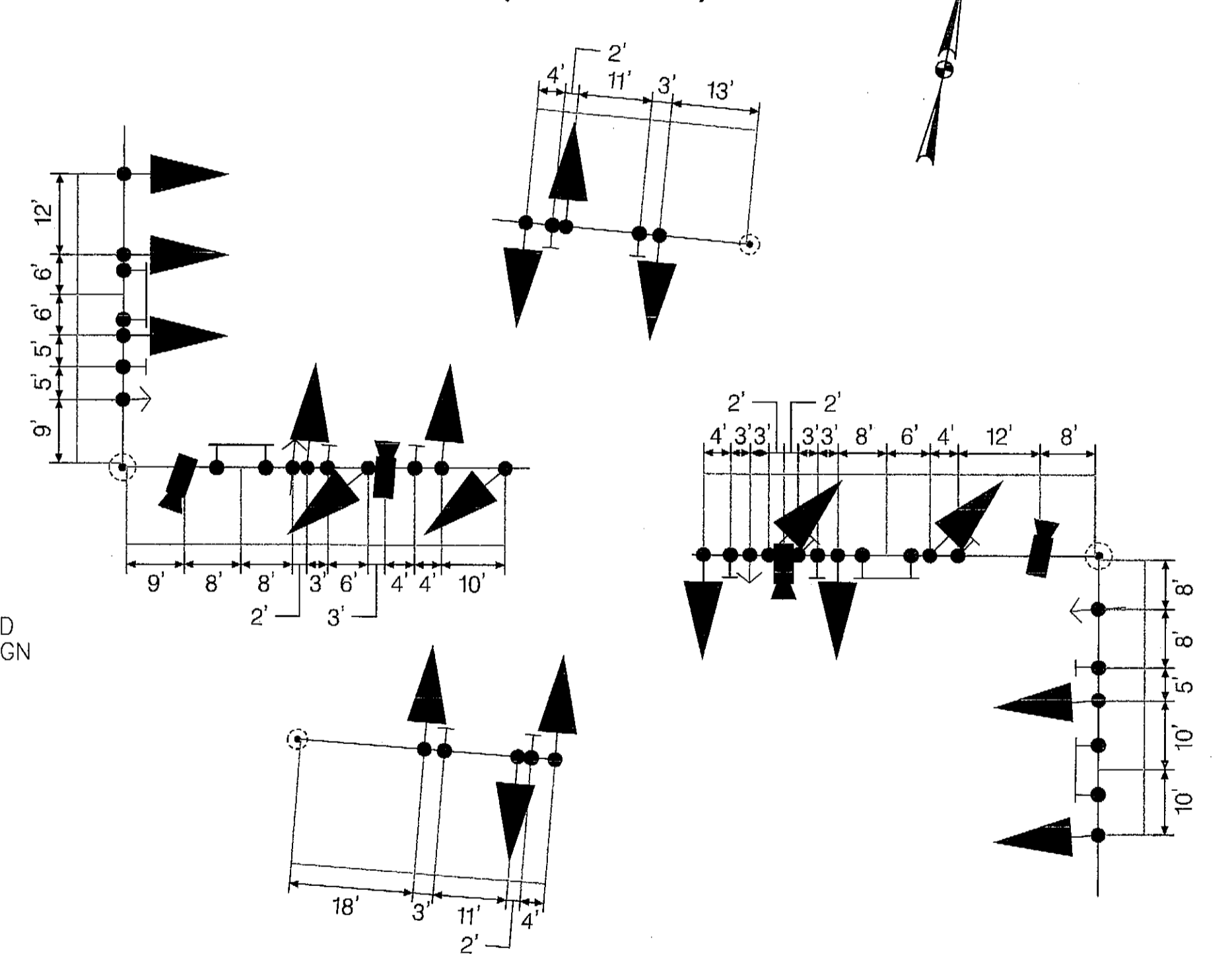
PF	POWER FEED UNDERGROUND 3 WIRE 1 CONDUCTOR (NO. 8 AWG)
PS	POWER SERVICE UNDERGROUND (BY OTHERS)
PT	PROPOSED TELEPHONE DROP
+	GROUND ROD

**SABRA, WANG & ASSOCIATES, INC.**  
7055 SAMUEL MORSE DRIVE  
SUITE 100  
COLUMBIA, MD 21046  
(443)741-3500  
WWW.SABRA-WANG.COM

## PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	38
PHASE 1 AND 5		G	G	R	R		G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	FLASH
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																						FLASH
PHASE 1 AND 6		G	G	G	G		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FLASH
1 AND 6 CHANGE		Y	Y	Y	Y		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FLASH
PHASE 2 AND 5		R	R	R	R		G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	SIG. AHEAD
2 AND 5 CHANGE		R	R	R	R		Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	SIG. AHEAD
PHASE 2 AND 6		R	R	G	G		R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	SIG. AHEAD
2 AND 6 CHANGE		R	R	Y	Y		R	R	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	SIG. AHEAD
PHASE 3		R	R	R	R		R	R	R	R	R	G	G	G		G	R	R	R	R	R	FLASH
3 CHANGE		R	R	R	R		R	R	R	R	R	Y	Y	Y		G	R	R	R	R	R	FLASH
OLA CLEAR		R	R	R	R		R	R	R	R	R	R	R	R		G	R	R	R	R	R	FLASH
OLA CHANGE		R	R	R	R		R	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R	FLASH
PHASE 4		R	R	R	R		R	R	R	R	R	R	R	R	R	G	G	G		G	FLASH	
4 CHANGE		R	R	R	R		R	R	R	R	R	R	R	R	R	Y	Y	Y		G	FLASH	
OLB CLEAR		R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R		G	FLASH	
OLB CHANGE		R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	FLASH	
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	SIG. AHEAD

NOTES: PRE-EMPTION NO. 1 WILL HOLD PHASE 1 & 6  
PRE-EMPTION NO. 2 WILL HOLD PHASE 2 & 5  
PRE-EMPTION NO. 3 WILL HOLD PHASE 3  
PRE-EMPTION NO. 4 WILL HOLD PHASE 4  
SIGNAL #38 FLASHES INTERMITTENTLY DURING FLASH OPERATION

MAST ARM DETAIL  
(NOT TO SCALE)**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 50 (OCEAN GATEWAY) AT WALSTON SWITCH ROAD  
PARSONSBURG, MARYLAND

## GENERAL INFORMATION SHEET

SCALE	NONE	DATE	02-28-2013	CONTRACT NO.	W3095176
DESIGNED BY	R.L.W.FISH	COUNTY	WICOMICO		
DRAWN BY	R.L.W.FISH	LOGMILE	22005020.94		
CHECKED BY	S.D.U.	TIMS NO.	L374		
F.A.P. NO.		TOD NO.			
TS NO.	3587	DRAWING	pSG OF N001	SHEET NO.	34 OF 37